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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/711,297	09/09/2004	Argy Petros		5296	
36988 759			EXAMINER		
THINK WIRELESS, INC. 6208 GRAND CYPRESS CIRCLE			LEE, PING		
LAKE WORTH, FL 33463			ART UNIT	PAPER NUMBER	
			2615	2615	
<u>.</u>					
SHORTENED STATUTORY P	ERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MONT	HS	02/26/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

· · · · · · · · · · · · · · · · · · ·	Application No.	Applicant(s)				
	10/711,297	PETROS, ARGY				
Office Action Summary	Examiner	Art Unit				
·	Ping Lee	2615				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	l.  ely filed  the mailing date of this communication  O (35 U.S.C. § 133).				
Status						
<ol> <li>Responsive to communication(s) filed on 09 Set</li> <li>This action is FINAL.</li> <li>Since this application is in condition for allowant closed in accordance with the practice under Exercise.</li> </ol>	action is non-final. nce except for formal matters, pro					
Disposition of Claims .						
4) ☐ Claim(s) 1-4 is/are pending in the application. 4a) Of the above claim(s) is/are withdrav 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-4 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or						
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the original transfer of the correction of t	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te				

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Root et al (hereafter Root) (US006013007A) in view of Byrne et al (hereafter Byrne) (US 20040252057A1) and French (US 4,538,034).

Regarding claim 1, Root discloses an assembly comprising two earpieces (see Figs. 3 and 5), an antenna module (301), a headband structure (see Fig. 5), and a cable assembly comprising one audio cable (121), an audio connector (120), a radio frequency cable (123) and a radio frequency connector (122). Root fails to show a ceramic path antenna and a low noise amplifier circuit to operate the antenna module in the frequency band of 2320 to 2335 MHz. Although regular AM/FM /TV radio has been shown, Root suggested that other audio entertainment system could be combined. It was well known to those in the art that SDARS can provide a functionally equivalent audio entertainment as the regular AM/FM /TV radio. Byrne teaches an SDARS antenna module with a ceramic patch antenna ([0022]) and a low noise amplifier circuit (126; [0023]). Thus, it would have been obvious to one of ordinary skill in the art to modify Root in view of Byrne by utilizing a SDARS antenna module on the headband in order to receive SDARS audio entertainment.

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Root also fails to show two audio cables. As shown in Fig. 5, the headphones in Root has a left and right speakers to be put next to the left and right ear of the user respectively. Although Fig. 5 only shows the cable (121) directly connected to the left speaker, an electrical wire was inherently provided to provide the audio signal to right speaker as well. French teaches a layout with an audio cable connector (14) and two audio cables (12) for providing the audio signals to the left and right speakers respectively. Thus, it would have been obvious to one of ordinary skill in the art to modify Root in view of French by using two cables and an audio connector in order to provide the signals to the left and right speakers respectively.

Regarding claim 2, Root discusses the mounting means (col. 5, lines 21-22).

3. Claims 3 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Root et al (hereafter Root) (US006013007A) in view of Lorbeck (US 20030114135A1) and French (US 4,538,034).

Regarding claim 1, Root discloses an assembly comprising two earpieces (see Figs. 3 and 5), an antenna module (301), a headband structure (see Fig. 5), and a cable assembly comprising one audio cable (121), an audio connector (120), a radio frequency cable (123) and a radio frequency connector (122). Root fails to show a quadrifilar antenna and a low noise amplifier circuit to operate the antenna module in the frequency band of 2320 to 2335 MHz. Although regular AM/FM /TV radio has been shown, Root suggested that other audio entertainment system could be combined. It was well known to those in the art that SDARS can provide a functionally equivalent audio entertainment as the regular AM/FM /TV radio. Lorbeck teaches an antenna

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module with a quadrifilar antenna (302) and a low noise amplifier circuit (306). The antenna module is small in size. Thus, it would have been obvious to one of ordinary skill in the art to modify Root in view of Lorbeck by utilizing a quadrifilar antenna module on the headband in order to receive SDARS audio entertainment.

Root also fails to show two audio cables. As shown in Fig. 5, the headphones in Root has a left and right speakers to be put next to the left and right ear of the user respectively. Although Fig. 5 only shows the cable (121) directly connected to the left speaker, an electrical wire was inherently provided to provide the audio signal to right speaker as well. French teaches a layout with an audio cable connector (14) and two audio cables (12) for providing the audio signals to the left and right speakers respectively. Thus, it would have been obvious to one of ordinary skill in the art to modify Root in view of French by using two cables and an audio connector in order to provide the signals to the left and right speakers respectively.

Regarding claim 4, Root discusses the mounting means (col. 5, lines 21-22).

One skilled in the art would have expected that any mounting means could be utilized to mount the quadrifilar antenna module.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ping Lee whose telephone number is 571-272-7522. The examiner can normally be reached on Monday, Wednesday and Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian C. Chin can be reached on 571-272-7848. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Primary Examiner

pwl